

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) Electrically driven pump for the maintenance of swimming pools in combination with a swimming pool filter, a swimming pool cleaning device, comprising:

an electric motor having
a drive shaft with axial ends,
a first shaft output at a first of the axial ends,
a second shaft output at a second of the axial ends,
a first pump impeller at the first axial end and driven by the first shaft output, the first impeller operating at a low pressure and high flow rate, the first impeller having a first outlet and a second outlet to an exterior of the pump,

a second pump impeller at the second axial end and driven by the second shaft output, the second impeller operating at a higher pressure and lower flow rate as compared to the first impeller, the second impeller having an inlet and a first outlet to the exterior of the pump,

wherein the first outlet of the first impeller is connected to the inlet of the second impeller and delivers low pressure water to the inlet of the of the second impeller so that

the water flows from a region of low pressure toward a region of higher pressure, ~~and~~

wherein the second outlet of the first impeller and the first outlet of the second impeller are separate outlets to the exterior of the pump,

wherein the second outlet of the first impeller is connected to an inlet of the filter, and

wherein the first outlet of the second impeller is connected to an inlet of the cleaning device.

2. (currently amended) ~~Pump~~ The combination according to claim 1, ~~characterised in that~~ wherein, after the water is pumped by the first pump impeller and before the water is pumped by the second pump impeller (6, 30), the water circulates around the motor (2, 18) in order to cool the motor.

3. (currently amended) ~~Pump~~ The combination according to claim 1, wherein the first outlet of the first impeller is close to the second outlet of the first impeller.

4. (currently amended) ~~Pump~~ The combination according to claim 3, wherein the first outlet of the first impeller is located upstream of the second outlet.

5. (currently amended) ~~Pump~~ The combination according to claim 4, ~~characterised in that~~ wherein, the circulation of the water, after the water is pumped by the first pump impeller and before the water is pumped by the second pump impeller, ~~[[6]]~~ is carried out in a coiled pipeline ~~[[8]]~~ which surrounds the motor.

6. (currently amended) ~~Pump~~ The combination according to claim 4, ~~characterised in that~~ wherein, the circulation of the water after the water is pumped by the first pump impeller and before the water is pumped by the second pump impeller, ~~[[30]]~~ is carried out in a cylindrical space ~~[[27]]~~ formed around the motor ~~[[18]]~~, between the motor and an external housing ~~[[29]]~~.

7. (currently amended) ~~Pump~~ The combination according to claim 6, ~~characterised in that~~ wherein, the assembly formed by the motor ~~[[18]]~~, the housing ~~[[29]]~~, the two pump impellers ~~(23, 30)~~ and the high-pressure pump body is connected in a releasable manner to the body of the low-pressure pump.

8. (currently amended) ~~Pump~~ The combination according to claim 7, ~~characterised in that~~ wherein, the releasable connection between said assembly and the low-pressure pump body is carried out by means of bayonet-type locking.

9-10. (cancelled)

11. (currently amended) ~~Pump~~ The combination according to claim 2, wherein the first outlet of the first impeller is close to the second outlet of the first impeller.

12. (currently amended) ~~Pump~~ The combination according to claim 1, wherein,

the first pump impeller provides a flow rate of $18\text{m}^3/\text{hr}$ at a pressure of 1.3 bar, and

the second pump impeller provides a flow rate of $2\text{m}^3/\text{hr}$ at a pressure of 2.8 bar.

13. (cancelled)

14. (previously presented) System for maintenance of swimming pools, comprising:

means for filtering the swimming pool;

a cleaning device for swimming pool; and

an electrically driven pump comprising

i) an electric motor having a drive shaft with axial ends, a first shaft output at a first of the axial ends, and a second shaft output at a second of the axial ends,

ii) a first pump impeller at the first axial end and driven by the first shaft output, the first impeller operating for pumping water at a low pressure and high flow rate having a first outlet and a second outlet to the exterior of the pump,

iii) a second pump impeller operating at the second axial end and driven by the second shaft output, the second impeller operating for pumping water at a higher pressure and a lower flow rate as compared to the first impeller, the second impeller having an inlet and a first outlet to the exterior of the pump,

wherein the first outlet of the first impeller is connected to the inlet of the second impeller and delivers low pressure water to the inlet of the second impeller so that the water flows from a region of low pressure toward the region of higher pressure, and

wherein the second outlet of the first impeller and the first outlet of the second impeller are separate outlets exterior to the pump,

wherein the second outlet of the first impeller is used in combination with the means for filtering the swimming pool, and

wherein the first outlet of the second impeller is connected to the cleaning device.

15. (previously presented) The system according to claim 14, wherein,
the first pump impeller provides a flow rate of 18m³/hr at a pressure of 1.3 bar, and
the second pump impeller provides a flow rate of 2m³/hr at a pressure of 2.8 bar.

16. (currently amended) Electrically driven pump for the maintenance of swimming pools in combination with a swimming pool filter, a swimming pool cleaning device, comprising:

an electric motor comprising a stator and a rotor, the rotor fixedly joined to a shaft having axial ends defining a first shaft output at a first of the axial ends and a second shaft output at a second of the axial ends;

a centrifugal pump body with a exterior outlet [(16)] and an internal outlet [(24)] located upstream of the exterior outlet, the pump body having an exterior first face and an opposite exterior second face;

a first pump impeller at the first axial end and driven by the first shaft output, the first impeller operating at a low pressure and high flow rate, the first pump impeller rotating in the centrifugal pump body and discharging to the exterior outlet and the internal outlet;

an annular space [(25)] connected to the internal outlet;

discharge openings $[(26)]$ in the annular space;

a housing $[(29)]$ extending outward from the first face of the pump body;

an inner duct $[(28)]$ within the housing, the inner duct supporting the motor;

a cylindrical space $[(27)]$ located between the inner duct and an inner side of the housing, the cylindrical space in fluid ~~communicating~~ communication, via the discharge openings, with the annular space, the cylindrical space formed completely around the motor; and

a second pump impeller at the second axial end and driven by the second shaft output, the second impeller operating at a higher pressure and lower flow rate as compared to the first impeller, the second impeller having an inlet in fluid communication with the cylindrical space and an outlet to the exterior of the pump,

wherein the first outlet of the first impeller is connected to the inlet of the second impeller and delivers low pressure water to the inlet of the of the second impeller so that the water flows from a region of low pressure toward a region of higher pressure, and

wherein the second outlet of the first impeller and the first outlet of the second impeller are separate outlets to the exterior of the pump,

wherein the second outlet of the first impeller is
connected to an inlet of the filter, and

wherein the first outlet of the second impeller is
connected to an inlet of the cleaning device.

17. (currently amended) ~~Pump~~ The combination according
to claim 16, wherein,

the first pump impeller provides a water flow rate of
18m³/hr at a pressure of 1.3 bar, and

the second pump impeller provides a water flow rate of
2m³/hr at a pressure of 2.8 bar.

18. (cancelled)

19. (currently amended) ~~Pump~~ The combination of claim
16, wherein the housing is detachable from the pump body.